CLAIMS

1. A recording control apparatus for controlling recording of first, second, and third data series onto a storage medium, the apparatus is characterized by
5   comprising:

first data extracting means for extracting data having a first data amount from the first data series, the first data amount being a data amount in accordance with a data amount required for reproduction for first reproduction
10 time;

second data extracting means for extracting data having a second data amount from the second data series, the second data amount being a data amount in accordance with a data amount required for reproduction for second reproduction
15 time that is different from the first reproduction time;

first recording-control means for performing recording-control to record data having the first data amount for the first data series and data having the second data amount for the second data series onto the storage medium so that the
20 respective data are periodically arranged; and

second recording-control means for performing recording-control to record the third data series onto the storage medium so that the third data series is arranged at random independently of the first data series and the second
25 data series.

2.   The recording control apparatus according to claim 1, characterized in that the first data amount is a data amount that is an integral multiple of a data amount in a physical

5   unit area of the storage medium and that is close to a data amount required for reproduction for the first reproduction time, and

the second data amount is a data amount that is an integral multiple of a data amount in the physical unit area

10   of the storage medium and that is close to a data amount required for reproduction for the second reproduction time.

3.   The recording control apparatus according to claim 2, characterized in that, with respect to the storage medium,

15   the physical unit area is a minimum area to/from which data writing/reading is performed or an area in which an ECC block on which ECC processing is performed is recorded.

4.   The recording control apparatus according to claim 1,

20   characterized in that the first recording-control means causes the data having the first data amount for the first data series and the data having the second data amount for the second data series to be recorded onto the storage medium so that boundaries of the respective data match

25   boundaries of physical unit areas of the storage medium.

5.   The recording control apparatus according to claim 4,
characterized in that, with respect to the storage medium,
the physical unit area is a minimum area to/from which data
5   writing/reading is performed or an area in which an ECC
block on which ECC processing is performed is recorded.

6.   The recording control apparatus according to claim 1,
characterized in that the first data series is a data series
10   of video or a data series of audio associated with the
video;
     the second data series is a data series of metadata
that requires a real-time characteristic for the data series
of video or the data series of audio associated with the
15   video; and
     the third data series is a data series of metadata that
does not require a real-time characteristic for the data
series of video or the data series of audio associated with
the video.
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7.   The recording control apparatus according to claim 1,
characterized in that, for each clip that constitutes
material data in a predetermined area in the first data
series, the third data series uses one file containing one
25   of at least an LTC/UMID, GPS data, front-end time code,

discontinuous-point time code information, a front-end extended UMID source pack, and a discontinuous-point extended UMID source pack.

5   8.   A recording control method for a recording control apparatus for controlling recording of first, second, and third data series onto a storage medium, the method being characterized by comprising:

a first data extracting step of extracting data having
10   a first data amount from the first data series, the first data amount being a data amount in accordance with a data amount required for reproduction for first reproduction time;

a second data extracting step of extracting data having
15   a second data amount from the second data series, the second data amount being a data amount in accordance with a data amount required for reproduction for second reproduction time that is different from the first reproduction time;

a first recording-control step of performing recording-
20   control to record data having the first data amount for the first data series and data having the second data amount for the second data series onto the storage medium so that the respective data are periodically arranged; and

a second recording-control step of performing
25   recording-control to record the third data series onto the

storage medium so that the third data series is arranged at random independently of the first data series and the second data series.

5   9. A program for causing a computer to perform recording-control processing for controlling recording of first, second, and third data series onto a storage medium, the program being characterized by comprising:

    a first data extracting step of extracting data having

10   a first data amount from the first data series, the first data amount being a data amount in accordance with a data amount required for reproduction for first reproduction time;

    a second data extracting step of extracting data having

15   a second data amount from the second data series, the second amount being a data amount in accordance with a data amount required for reproduction for second reproduction time that is different from the first reproduction time;

    a first recording-control step of performing recording-

20   control to record data having the first data amount for the first data series and data having the second data amount for the second data series onto the storage medium so that the respective data are periodically arranged; and

    a second recording-control step of performing

25   recording-control to record the third data series onto the

storage medium so that the third data series is arranged at
random independently of the first data series and the second
data series.

5   10.   A storage medium in which first, second, and third
data series are recorded, the storage medium being
characterized by comprising:

data which is extracted from the first data series and
which has a first data amount that is a data amount in
10   accordance with a data amount required for reproduction for
first reproduction time and

data which is extracted from the second data series and
which has a second data amount that is a data amount in
accordance with a data amount required for reproduction for
15   second reproduction time that is different from the first
reproduction time

are recorded so that the respective data are
periodically arranged, and

wherein the third data series is arranged at random
20   independently of the first data series and the second data
series.